ok for all (TA) 12/9/00

10

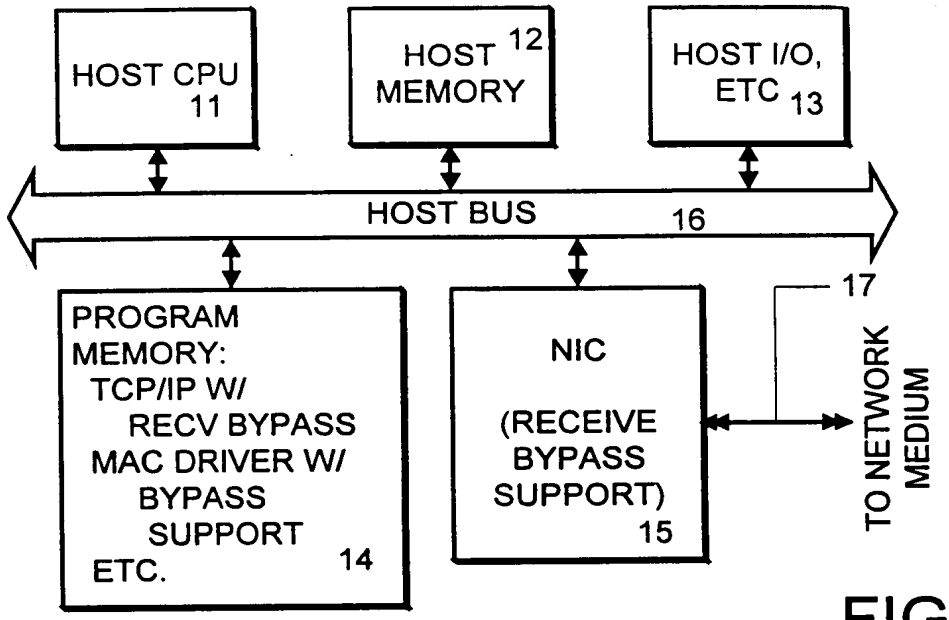

FIG. 1

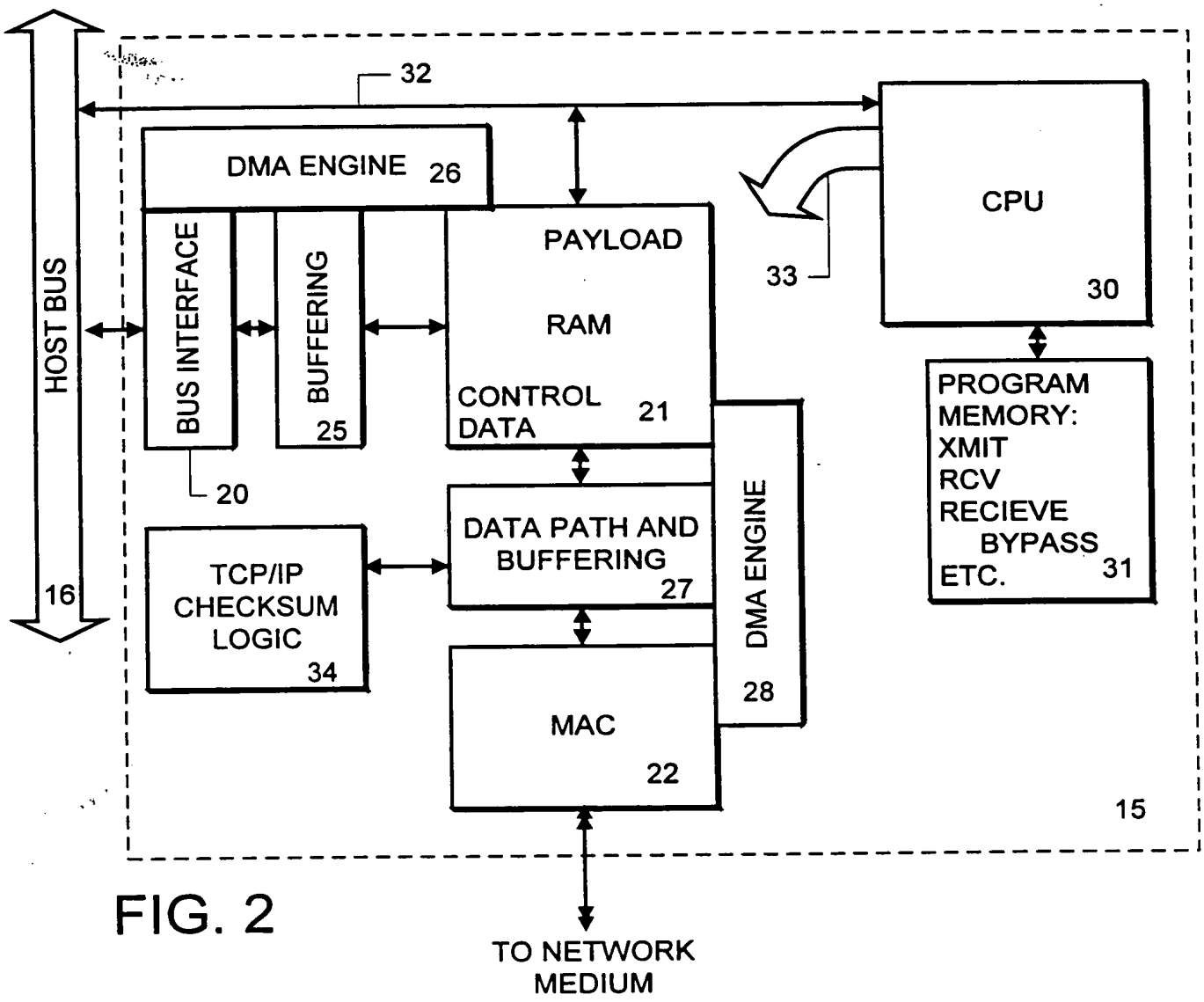

FIG. 2

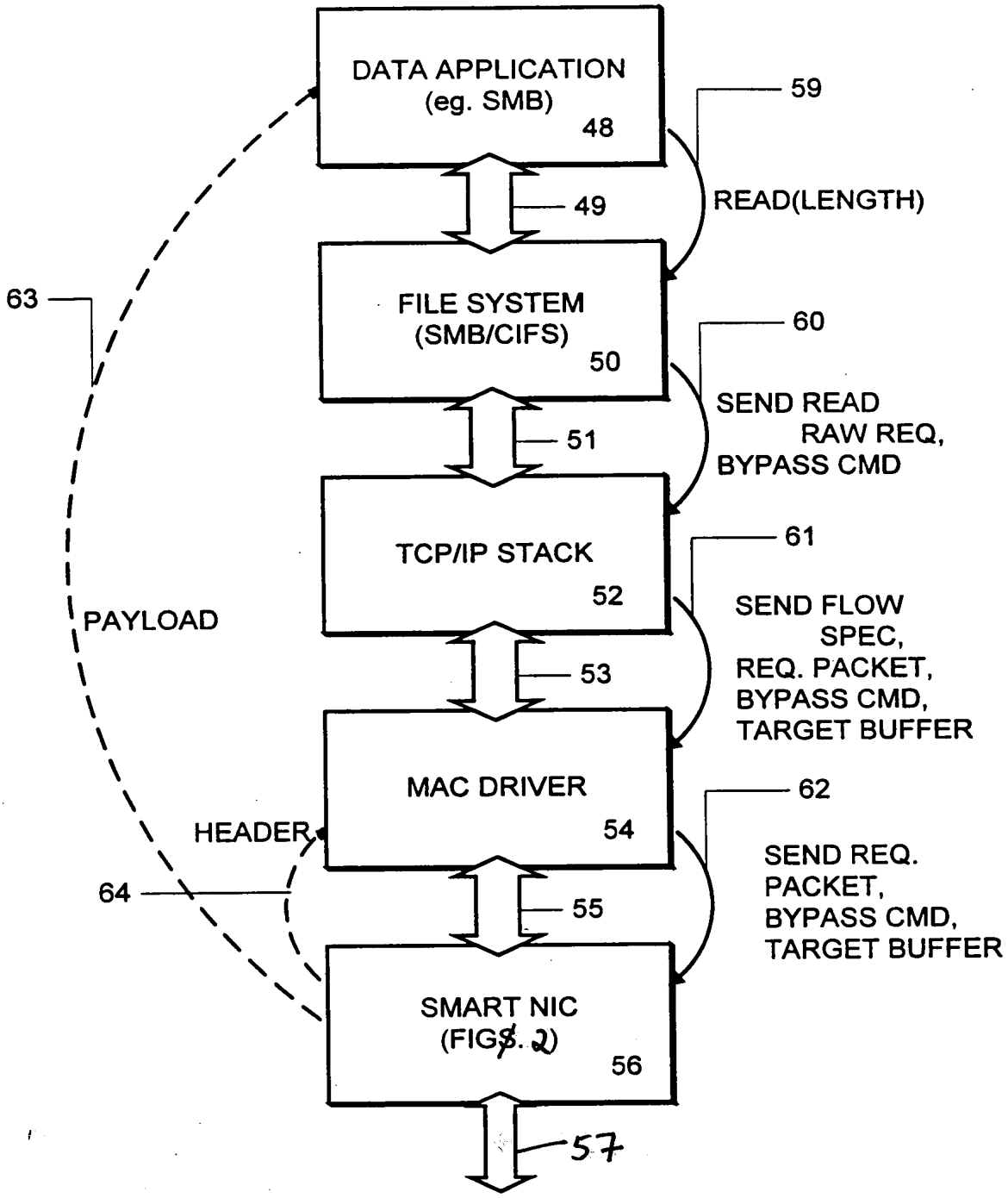
DATA APPLICATION
(eg. SMB)
48
59
READ(LENGTH)
49
FILE SYSTEM
(SMB/CIFS)
50
60
SEND READ
RAW REQ,
BYPASS CMD
51
TCP/IP STACK
52
61
SEND FLOW
SPEC,
REQ. PACKET,
BYPASS CMD,
TARGET BUFFER
53
MAC DRIVER
54
62
SEND REQ.
PACKET,
BYPASS CMD,
TARGET BUFFER
55
SMART NIC
(FIG. 2)
56
57
63
PAYLOAD
HEADER
64

FIG. 3

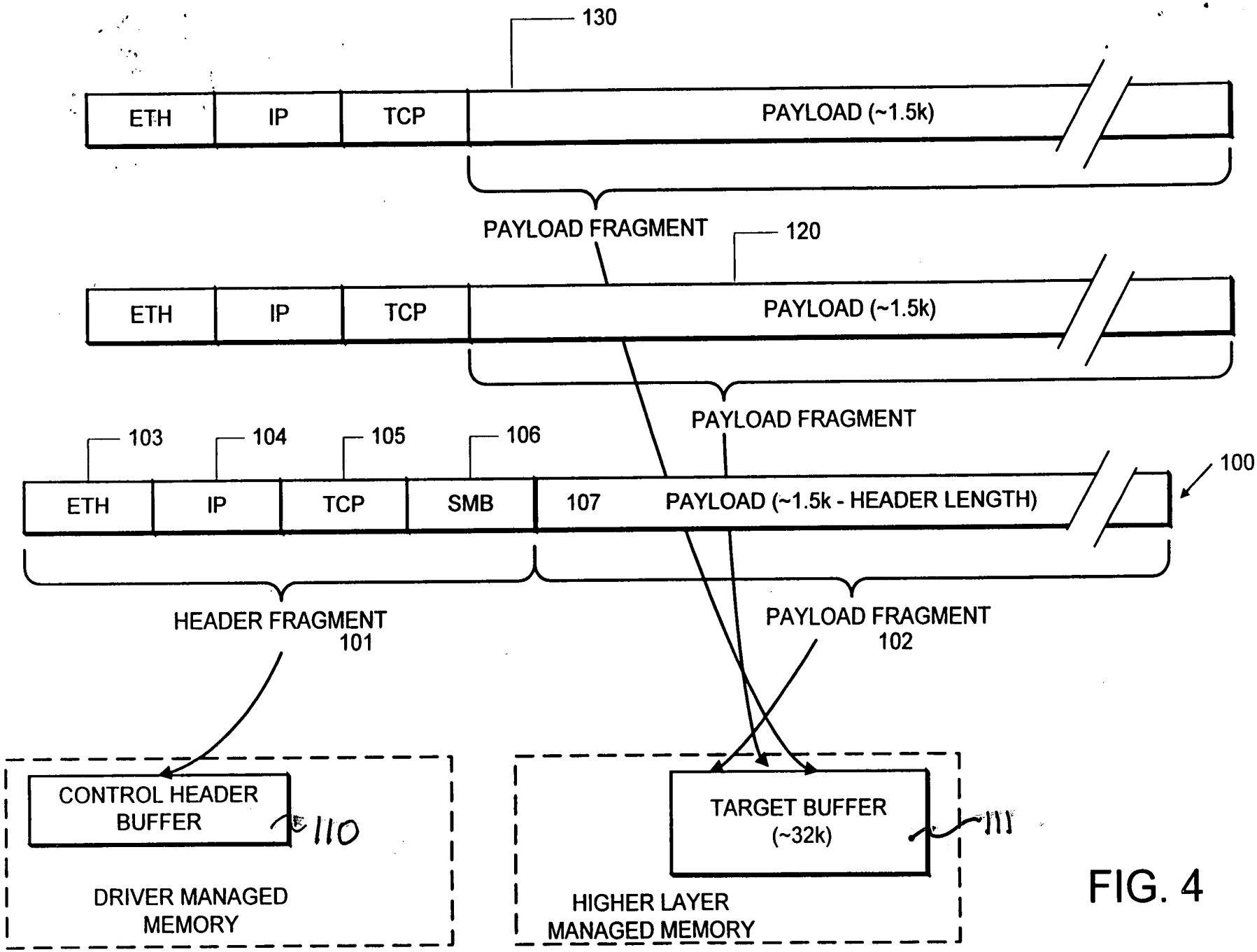
130
ETH
IP
TCP
PAYLOAD (~1.5k)
PAYLOAD FRAGMENT
120
ETH
IP
TCP
PAYLOAD (~1.5k)
PAYLOAD FRAGMENT
103
104
105
106
100
ETH
IP
TCP
SMB
107
PAYLOAD (~1.5k - HEADER LENGTH)
HEADER FRAGMENT
101
PAYLOAD FRAGMENT
102
CONTROL HEADER BUFFER
110
DRIVER MANAGED MEMORY
TARGET BUFFER (~32k)
111
HIGHER LAYER MANAGED MEMORY

FIG. 4